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TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-01-7367

Mr. Duane Heaton
Deputy Project Officer
Emergency Support Section, 5 HS-12
U.S. Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

September 27, 1990

TAT-05-G2-02153

Re: Lyle's Trucking, Belleville, Michigan TDD# 5-8909-09

Dear Mr. Heaton:

On September 9, 1989, the U. S. Environmental Protection Agency (U.S. EPA) tasked the Technical Assistance Team (TAT) to conduct a site assessment and evaluate the threats to human health and environment at the Lyle's Trucking site in Belleville, Wayne County, Michigan (Figure 1). This letter report summarizes the site history, site investigation and analytical results of samples collected by the TAT.

Lyle's Trucking is located at 40195 Judd Road, at the southeast corner of the intersection of Judd Road and Carleton West Road, in Sumpter Township, Wayne County, Michigan (Figure 2). The site is located in a rural residential and commercial area. Access to the site is gained via a driveway that connects to Carleton West Road. Access to the site is not restricted.

The Lyle's Trucking site is the former location of the Hard Fill Landfill, which was also known as the Satterlee-Sumpter Township Landfill, and was licensed landfill for disposal of general refuse and commercial wastes. The landfill opened in 1964, three years prior to obtaining an Act 87 license from the Michigan Department of Natural Resources (MDNR) on June 28, 1967. The landfill was closed in 1971 by Sumpter Township officials when they discovered that the landfill was operating illegally. Reports alleged that landfill operators accepted hazardous wastes, however, the allegations were never substantiated.

Because of the alleged illegal disposal of hazardous wastes at the landfill, combined with the presence of sandy soils and perched water table, the landfill was suspected of being the source of historical surface and ground water contamination in the area. MDNR files indicate that ground water flow of the area is to the south-southeast. There are several residential wells located hydrogeologically downgradient from the landfill.

EPA Region 5 Records Ctr.



238413

Roy F. Weston, Inc.
MAJOR PROGRAMS DIVISION

In Association with ICF Technology, Inc., C.C. Johnson & Malhotra, P.C., Resource Applications, Inc., and R.E. Sarriera Associates

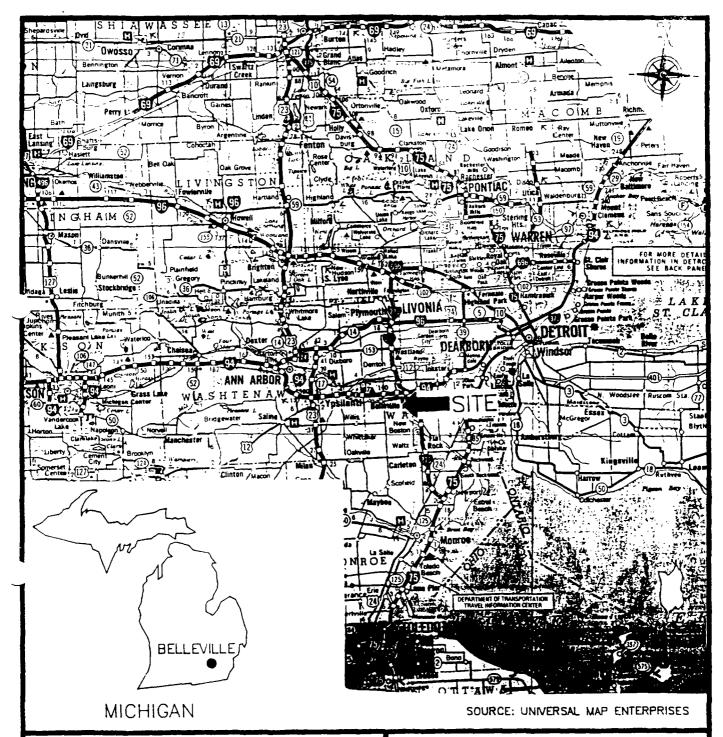
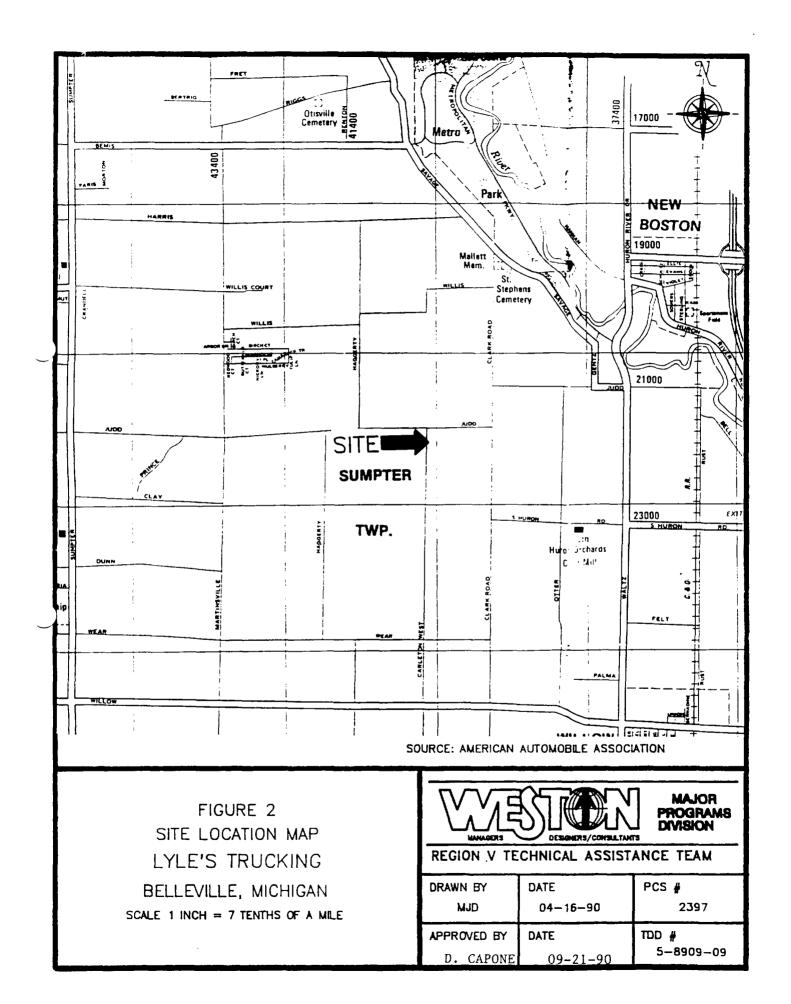


FIGURE 1
SITE LOCATION MAP
LYLE'S TRUCKING
BELLEVILLE, MICHIGAN
SCALE 1 IN = 14.5 MI



| DRAWN BY | DATE | PCS # | |
|-------------|----------|--------------------|--|
| MJD | 09-20-90 | 2397 | |
| APPROVED BY | DATE | TDD # 5-8909-09 | |
| D. CAPONE | 09-21-90 | | |

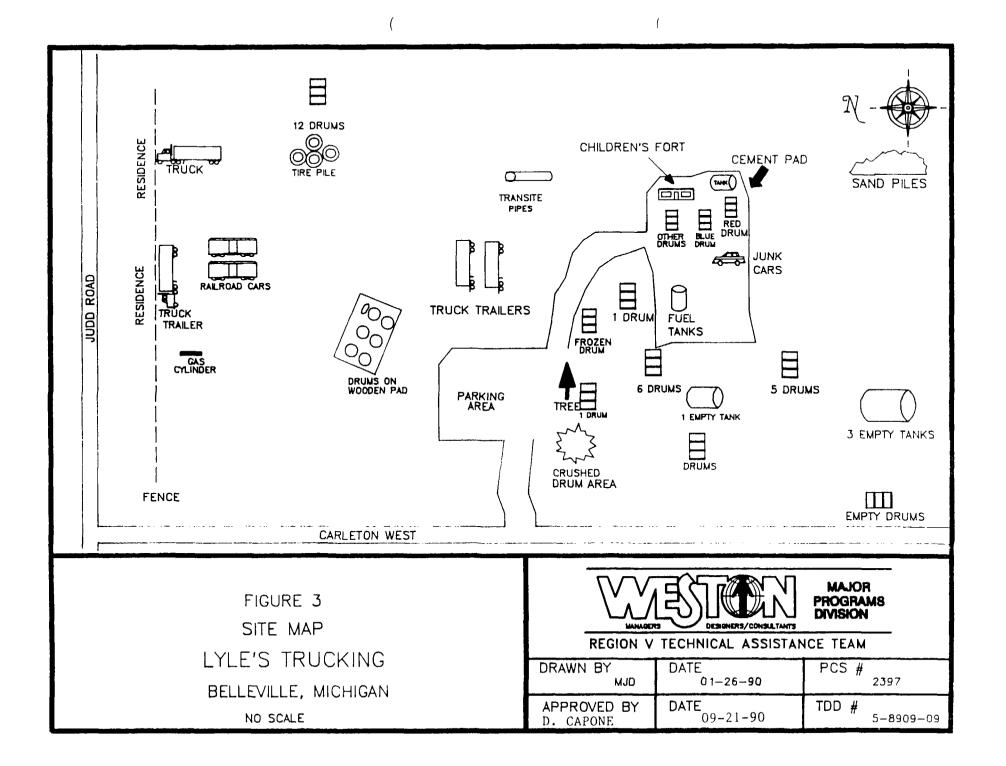


According to MDNR files, Lyle Zilka of Lyle's Trucking Company, began using the landfill in 1975 as a storage area for 55-gallon drums containing liquid industrial wastes. Lyle's Trucking also used the site for a barrel crushing operation. Mr. Zilka claimed that only empty drums were accepted for crushing. After discovering that Lyle's Trucking was accepting drums containing liquids, paints, solvents, and oils, the MDNR ordered that a cement pad be constructed for the drum crushing operation. The MDNR also restricted Lyle's Trucking to a maximum of 2,000 drums on site at any one time. In 1979, 8,000 drums were discovered at the site, and the MDNR ordered Mr. Zilka to cease acceptance of wastes and to reduce the inventory of drums. Subsequently, the MDNR revoked Lyle's Trucking liquid waste haulers license under the Michigan Liquid Industrial Waste Act.

In August, 1979, Mr. Zilka and Environmental Waste Control (EWC) entered into a Consent Agreement with the MDNR to remove approximately 8,000 drums and contaminated surface soils from a four acre area of the site. Since the removal of these drums, additional drums have been periodically dumped at the site. The MDNR attempted to take enforcement actions against the potentially responsible parties (PRPs), however, their efforts were unsuccessful.

On August 11, 1989, the MDNR Environmental Response Division (ERD) contacted the U.S. EPA Emergency and Enforcement Response Branch (EERB) and requested assistance in evaluating the threats to human health and the environment posed by the Lyle's Trucking site. On September 9, 1989, the TAT was tasked by the U.S. EPA to conduct a site investigation and implement a sampling plan at the Lyle's Trucking site.

On September 15, 1989, TAT members George Cella, Mathew Sam, and Kerry Hanlon conducted a site investigation at the Lyle's Trucking site. A thorough survey of the site revealed the presence of approximately 70 drums. Many of the drums were staged in small groups which were scattered throughout the site (Figure 3). Several drums which were observed leaking paint-like materials were staged on a large concrete pad near the south end of the site. The TAT observed signs that children had been playing throughout the site, including a fort-like structure which had been constructed on the concrete pad next to some of the leaking drums. The TAT documented the presence of several tanks of various sizes, crushed drums, and abandoned automobiles at the site. The TAT also observed several areas of visibly stained soils and stressed vegetation across the eight acre site.



The TAT conducted air monitoring using a combustible gas indicator (CGI), a radiation meter, and an organic vapor analyzer (OVA). No readings above background were detected with either the CGI or the radiation meter. The TAT documented OVA readings of up to 900 units above background in the headspace of a drum which was leaking a blue paint-like material. Readings of up to 200 units above background were observed while monitoring near a drum leaking a reddish/pink paint-like material. No readings above background were documented from any of the tanks or crushed drums.

On January 12, 1990, TAT members Cella, Katie Mooney, and Cheryl Kreindler met U.S. EPA On-Scene Coordinator (OSC) Jason El-Zien at the Lyle's Trucking site to collect drum and soil samples. developed a detailed log of the number of drums and their respective locations on site. Following a brief survey of the site, the TAT collected two soil samples (S93 and S94) and four Sample locations are presented on Figure drum samples (S96-S99). The soil samples were collected from areas which appeared to have stressed vegetation. Two samples were collected from drums located on the wooden pad north of the parking area (S96 and S99). Samples were also collected from two drums staged on the cement pad that were observed leaking paint-like sludges (S99 and S98). background soil sample (S95) was collected west of the site near Carleton West Road.

All samples were analyzed by Analytic and Biological Laboratories of Farmington Hills, Michigan, under TAT Analytical Services TDD# 5-9001-L06. The soil samples were analyzed for total metals and pH. Analytical results of the soil samples collected are summarized in Table 1. Analytical results of soil sample S93, collected from a crushed drum area, revealed 1,530 parts per million (ppm) lead. The typical median concentration of lead in natural soils is 29 ppm (source: Typical Concentrations of Metals in Soils, prepared by Region V TAT). The levels of other total metals in samples S93 and S94 were within the typically occurring ranges for natural soil.

The drum samples collected by the TAT were analyzed for volatile organic compounds (VOCs), Extraction Procedure Toxicity (EP Tox) metals, and flash point. Analytical results of the samples are displayed in Table 2. All four drum samples contained detectable levels of VOCs, such as toluene and xylene. Analysis of drum sample S98 showed 8.332 ppm ethylbenzene and 15.19 ppm xylene. Analytical results of drum sample S99 revealed 5,284 ppm cresols (cresyllic acid) and 1,309 ppm ethylbenzene.

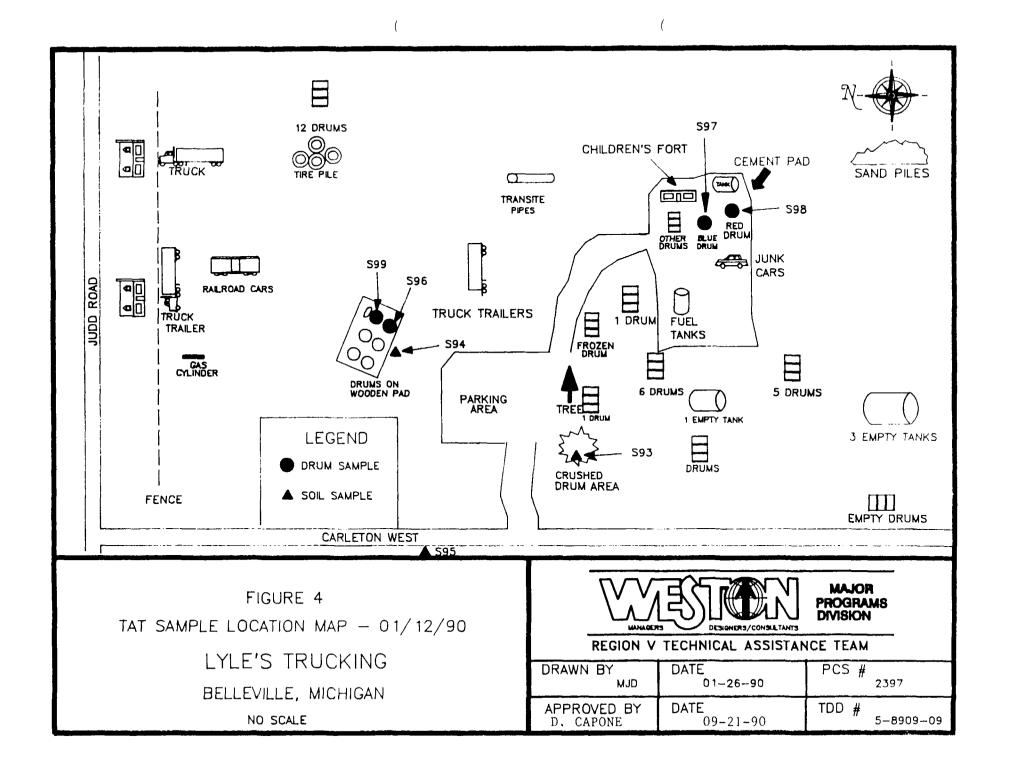


TABLE 1

ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED BY TAT^a
TOTAL METALS, pH
LYLE'S TRUCKING SITE
BELLEVILLE, MICHIGAN
January 12, 1990

(All results in ppm unless otherwise indicated)

| S-93 S-94 S-95 | | | | | | | | | |
|---|--------------|--------|-------|--------|--|--|--|--|--|
| ALUMINUM 1,820 1,250 1,110 BARIUM 137 30.44 24.8 BERYLLIUM 0.114 0.072 0.202 CADMIUM 3.29 0.628 0.272 CALCIUM 28,100 8,050 41,500 CHROMIUM 40.5 11.36 4.16 COBALT 3.66 2.29 0.63 COPPER 27.6 7.24 6.16 IRON 5,120 2,510 402 LEAD 1,530 59.8 29.8 MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | PARAMETERS | | 1 | | | | | | |
| BARIUM 137 30.44 24.8 BERYLLIUM 0.114 0.072 0.202 CADMIUM 3.29 0.628 0.272 CALCIUM 28,100 8,050 41,500 CHROMIUM 40.5 11.36 4.16 COBALT 3.66 2.29 0.63 COPPER 27.6 7.24 6.16 IRON 5,120 2,510 402 LEAD 1,530 59.8 29.8 MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | TOTAL METALS | | | | | | | | |
| BERYLLIUM 0.114 0.072 0.202 CADMIUM 3.29 0.628 0.272 CALCIUM 28,100 8,050 41,500 CHROMIUM 40.5 11.36 4.16 COBALT 3.66 2.29 0.63 COPPER 27.6 7.24 6.16 IRON 5,120 2,510 402 LEAD 1,530 59.8 29.8 MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | ALUMINUM | 1,820 | 1,250 | 1,110 | | | | | |
| CADMIUM 3.29 0.628 0.272 CALCIUM 28,100 8,050 41,500 CHROMIUM 40.5 11.36 4.16 COBALT 3.66 2.29 0.63 COPPER 27.6 7.24 6.16 IRON 5,120 2,510 402 LEAD 1,530 59.8 29.8 MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | BARIUM | 137 | 30.44 | 24.8 | | | | | |
| CALCIUM 28,100 8,050 41,500 CHROMIUM 40.5 11.36 4.16 COBALT 3.66 2.29 0.63 COPPER 27.6 7.24 6.16 IRON 5,120 2,510 402 LEAD 1,530 59.8 29.8 MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | BERYLLIUM | 0.114 | 0.072 | 0.202 | | | | | |
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| IRON 5,120 2,510 402 LEAD 1,530 59.8 29.8 MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | COBALT | 3.66 | 2.29 | 0.63 | | | | | |
| LEAD 1,530 59.8 29.8 MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | COPPER | 27.6 | 7.24 | 6.16 | | | | | |
| MAGNESIUM 3,080 2,520 10,100 MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | IRON | 5,120 | 2,510 | 402 | | | | | |
| MANGANESE 171 100 243 NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | LEAD | 1,530 | 59.8 | 29.8 | | | | | |
| NICKEL 21 4.9 10.8 POTASSIUM 36.1 87.5 105 | MAGNESIUM | 3,080 | 2,520 | 10,100 | | | | | |
| POTASSIUM 36.1 87.5 105 | MANGANESE | 171 | 100 | 243 | | | | | |
| | NICKEL | 21 | 4.9 | 10.8 | | | | | |
| SODIUM 33.8 18.6 104 | POTASSIUM | 36.1 | 87.5 | 105 | | | | | |
| = | SODIUM | 33.8 | 18.6 | 104 | | | | | |
| VANADIUM 3.23 2.66 0.411 | VANADIUM | 3.23 | 2.66 | 0.411 | | | | | |
| ZINC 569 151 33.1 | ZINC | 569 | 151 | 33.1 | | | | | |
| pH (UNITS) 7.83 6.56 8.1 | pH (UNITS) | 7.83 | 6.56 | 8.1 | | | | | |

 a - Analysis performed by Analytic & Biological Laboratories, Farmington Hills, Michigan.

TABLE 2

ANALYTICAL RESULTS OF DRUM SAMPLES COLLECTED BY TATa VOCS, EP TOX METALS, FLASH POINT LYLE'S TRUCKING SITE BELLEVILLE, MICHIGAN January 12, 1990

(All results in ppm unless otherwise indicated)

| | PARAMETERS | S-96 DRUM #1 | S-97 DRUM #2 | S-98 DRUM #3 | S-99 DRUM #4 |
|----|----------------------------|-----------------|-------------------|-------------------|-----------------|
| | VOLATILE ORGANIC COMPOUNDS | | | | |
| | ACETONE | ND | ND | 0.651 | ND |
| `¬ | CRESOLS (CRESYLLIC ACID) | ИD | ND | ND | 5,284 |
| | ETHYLBENZENE | ND | ИD | 8.332 | 1,309 |
| | METHYL ISOBUTYL KETONE | ND | ND | 1.112 | ND |
| | TOLUENE | 0.361 | ИD | 3.957 | 0.609 |
| į | XYLENE | 0.31 | 0.073 | 15.19 | 11.41 |
| | METALS EP TOX | | | | |
| | BARIUM | 0.019 | 0.005 | 0.025 | 0.009 |
| | CADMIUM | ND | ND | 0.104 | ND |
| | COPPER | 0.013 | 0.006 | 0.039 | ND |
| | LEAD | 173 | 0.145 | 9.49 | ND |
| | ZINC | 0.119 | 0.101 | 6.33 | 22.98 |
| ĺ | FLASH POINT (°F) | >200° | 90° | 93° | >200° |

a - Analysis performed by Analytic & Biological Laboratories,
 Farmington Hills, Michigan.

[⊸]D - Not detected at method detection limits.

EP Tox results indicate that samples S96 and S98 are hazardous based on the Resource Conservation and Recovery Act (RCRA) characteristic of EP Tox (40 CFR Part 261.24) for lead (maximum allowable EP Tox level for lead in solid waste is 5 ppm). EP Tox analysis of the materials in samples S96 and S98 showed levels of 173 and 9.49 ppm lead, respectively. Samples S97 and S98, collected from drums, exhibited flash points of 90° and 93° fahrenheit (°F), respectively. Under RCRA, a waste exhibits the characteristic of ignitability if it has a flash point of less than 140° (40 CFR Part 261.21).

Paragraph (b) (2) of Section 300.415 of the National Contingency Plan (NCP) outlines factors which may be considered in determining the appropriateness of a removal action. Due to the documented presence of elevated levels of EP Tox metals in wastes, in addition to ignitable wastes contained within deteriorating and/or leaking drums, and the potential that additional drums not sampled contain hazardous substances, the following conditions exist at the Lyle's Trucking site:

- o actual or potential exposure to hazardous substances or contaminants by nearby populations, animals or food chains;
- o hazardous substances or pollutants or contaminants in drums, barrels, tanks or other bulk storage containers that may pose a threat of release;
- o weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or to be released; and
- o threat of fire or explosion.



Mr. Duane Heaton

-11-

September 27, 1990

Should you have any questions, or require additional information, please feel free to contact us.

Very truly yours,

ROY F. WESTON, INC.

Michael DeLong

Environmental Scientist

William R. Doyle

Technical Assistance Team

Leader, Region V

MD/jj

cc: J. El-Zien, OSC

ATTACHMENT A

SITE PHOTOGRAPHS



FORTO NO. 3

LL E: LYLE'S TRUCKING

CATE/I'ME: 09-14-89/PM

CIRECTION: EAST

PHOTOGRAPHER: K. HANLON A

LAMERA, OLYMPUS INFINITY 35 MM

LEGELT: VIEW OF THE SITE



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PHOTO NO: 2

SILE: LYLE'S TRECKING

DATE:/TIME: 09 --89/P

DIRECTION: SOUTH
PHOTOGRAPHER: K. HANLUN KM

CAMERA: OLYMPUS INFINITY 35 MM

SUBJECT: VIEW OF THE SITE



See Marie

SITE LYLETE FRUGILISE

DATE | IME: 03-14-89 PM

2091 10%: wEST

PROTE MARRER X. HEXION

CAME OF GRANDER INSTALLS 35 MM

ELECT 1: VIEW OF SITE FAG BRIVEWAY COMING ONTO COTS



PHOTO NO: 4

SITE: LYLE'S TRUCKING

DATE/FINE: 09-14-89/04

DIRECTION: SE

PHOTOG 4PHER: K. F. 10KM CAMERA: OLYMPUS INFIBIT: 25 Mm

SUBJECT: DRUMS, CONTHINERT AND DEBRIS PRESENT ON SITE



PHOTO NO: 5
ECTE: LYLE'S TRUCKING
DATE/TIME: 09-14-8 TY
CORECTION: WEST
ENGIGERAPHER: N. SANCONFM
COMMERA: CLYMPUS INFONITY 35 MM
SUPCECT: TANK PRESIVE ON SITE



PHOTO NO: 6
SITE: LYLE'S TRUCKING
DATE/TIME: 09-14-89/PM
DIRECTION: SW
PHOTOGRAPHER: K. HANLON
CAMERA: OLYMPUS INFINITY 35 MM
SUBJECT: STAINED SOIL ON SUTE



PALIC NO. 7
SITC: LYLE'S TRUCKING
SOTI TIME, OF CA-89
SITCITION: EAST
PHO DERAPHER: N. GANCEN
TOTAL SLYME BINEINITY 35 MM
DUGGOT: GRUEHED DRUMS PRESENT ON SITE

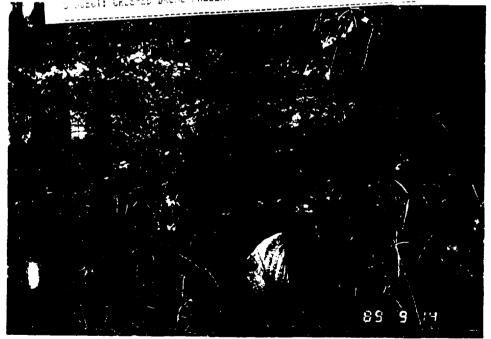


PHOTO NO. 3

SITE: LYLE'S TIBOKING
DATE/TIME: 05: 3/PM
DIRECTION: WEST
PHOTOGRAPHER: 8. -40/000

PHOTOGRAPHER: K. HANLON 1991 CAMERA: OLYMPUS INFINITY 35 MM SUBJECT: DRUMS PRESENT ON THE SITE



PHOTO NO: 3 SITE: LYLE'S TRUCKING DATE/TIME: 09+14-89/PM DIRECTION: NW

PHOTOGRAPHER: K. HANLOWY CAMERA: OLYMPUS INFINITY 35 MM

DUBJECT: DRUMS PRESENT ON THE MORTHERN PART OF THE BOTE



PHOTO NO: 10 SITE: LYLE'S TRUCKING DATE TIME: 09-1:-89/PM

DIRECTION: NW

PHOTOGRAPHER: K. HANLOK CAMERA: OLYMPUS INFINITY 35 MM

SUBJECT: TAT AIR MONITORING DRUMS PRESENT ON THE SITE



THREE UPLETS TRUCKING

DATE OF 14-89/PM

DIRECTION NA

PHOTOGRAPHER: X. HANLOW

LAMBRA: CLIMPLE INFINITY 35 MM

LARGRA: CLIMPLE INFINITY 35 MM

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SITE AND THE RESIDENCE ACCACENT TO THE SITE



PHOTO NO: 12 SITE: LYLE'S TRUCKING DATE/TIME: <- -89/PM

DIRECTION: SE

PHOTOGRAPHER: K. HANLON KPH CAMERA: CLYMPUS INFINITY 35 MM

SUBJECT: AIR MONITORING BEING CONDUCTED AROUND CRUSHED DRUMS



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THE TRUCKING TRUCKING TO BE TO BE



PHOTO NO: 14 SITE: LYLE'S TRUCKING DATE:TIME: 09-14-89/6* DIRECTION: SOUTH

PHOTOGRAPHER: K. HANCON MAP CAMERA: GLYMPUS INFINITY 35 MM

SUBJECT: DRUM CONTAINING BLIE MATERIAL, BHOWED 60.-630 PRM 8N THE DVA

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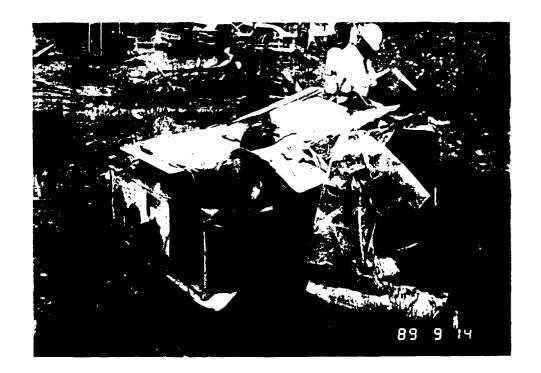


PHOTO NOT 15

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DATE/TIME: 1:-14-89/PM

DIREUTION: 15

PHOTOSERVERS . HANLON KPP

TAMERAL OF MICE INFANITY 35 MM

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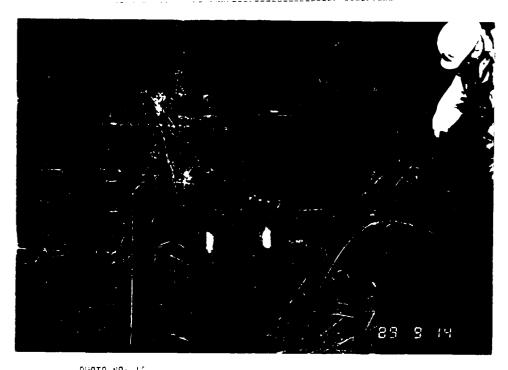


PHOTO NO: 15 SITE: LYLE > TRUCKLING DATE/TIME: 09-14-5-/PM DIRECTION: WEST

PHOTOGRAPHER: K. SANLON(CH CAMERA: OLYMPUS INFINITY BS HM

SUBJECT: AIR MONITURING BEING CONDUCTED ON SINGLE ISTLATED DRUM



PHOTO NO: 17 ELTE: LYLE'S TRUCKING DATE/TIME: 03-14-89/PM

DORECTION: SE PHOTOGRAPHER: K. HANLON KA CHICAGO CHIMPUS INFINITY SE ME

TURITORN TRUB CONTAINING RECUBA SUBSECT SUBMIT ON THE SIFE.



SITE: [YLE'S TRUCKING DATE/TIME: 01-12-90/PM DIRECTION: NW

PHOTOGRAPHER: C. KREINDLER CAMERA: GLYMPUS INFINITY 35 MM

SUBJECT: TAT COLLECTING SOIL SAMPLE S2



PHOTO NO: 19

SITE: LYLE'S TRUCKING DATE/ TIME: 01-12-90/PM

DIRECTION: NW

PHOTOGRAPHER: C. KREINDLER CAMERA: OLYMPUS INFINITY 35 MM

SUBJECT: TAT COLLECTING SOIL SAMPLE S2



T/ NC: 10

LIVE: LYLE'S TRUCKING

DATE TIME: 01-12 99/PM DIDE TION: SE L. DUGRAPHUR: C. KREINDLER CAUDEA: OLUMPUS INFINITU 35 MM

CONTINUE THAT COLLECTING SOIL SAMPLE SI



FHOTE NO: 21

JITE: LYLE'S TRUCKING DATE/ TIME: 01-12-90/PM

DIRECTION: SE SHOTOGRAPHER: C. KREINDLER CAMERA: OLYMPUS INFINITY 35 MM

SUBJECT: LOCATION OF SOIL SAMPLE S1



2H0T0 NO: 22

DITT: LELE'S TRUCKING DATE/TIME: 01-12-00/PM

DIPECTION: SW

PHOTOGRAPHER: C. KREINDLEF (1)
CAMERA: OLEMPUS INFINITY 1 MM

DUTIECT: VIEW OF DRUM WITH MATERIAL LEAR NG CO

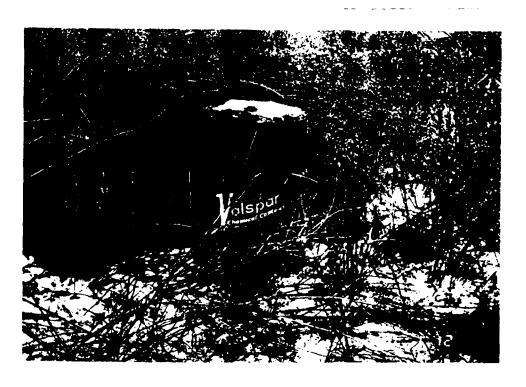


PHOTO NO: 23

SITE: LYLE'S TRUCKING DATE/TIME: 01-12-90/PM

DIRECTION: NORTH

PHOTOGRAPHER: C. KREINDLER CAMERA: OLYMPUS INFINITY 35 MM
SUBJECT: GROUP OF BARRELS ON SITE



MOTO NO: 24 SITE: LYLE'S TRUCKING DATE/TIME: 01-12-50/PM

MINECTION: NE

PHOTOGRAPHER: C. KREINDLER 🤟 CAMERA: OLYMPUS INFINITY 35 MM

CHILDECT: TATE TOLLERCTING DRUM OF THE DI



OTO NO: 25

LITE: LYLE'S TRUCKING DATE/TIME: 01-12-90/PM

DIRECTION: SE

PHOTOGRAPHER: C. KREINDLER CAMERA: OLYMPUS INFINITY 35 MM

SUBJECT: TAT COLLECTING DRUM SAMPLE D2



PHCTO NO: 26

SITE: LYLE'S TRUCKING DATE/TIME: 01-12-90/PM

DIRECTION: SOUTH

PHOTOGRAPHER: C. KREINDLER COMMERA: OLYMPUS INFINITY 35 MM

SUBJECT: TAT COLLECTING DRUM SABBLE DO



PHOTO NO: 27

CITE: LYLE'S TRUCKING DATE/TIME: 01-12-90/PM

DIRECTION: EAST

PHOTOGRAPHER: C. KREINDLER CAMERA: OLYMPUS INFINITY 35 MM

SUBJECT: VIEW OF FUEL TANKS CONTAINING LIQUID



...CTO NU: 29

SITE: LYLE'S TRUCKING DATE/TIME: 01-12-90/PM

DIFECTION: EAST THOTOGRAPHER: C. KREINDLER (F) TMERA: OLYMPUS INFINITY 35 MM

MANUFOR: TAT COLLECTING DRUM CAMPLE D4



FROTO NO: 29

CITE: LYLE'S TRUCKING DATE/TIME: 01-12-90/PM

DIRECTION: WEST

PHOTOGRAPHER: C. KREINDLERUS CAMERA: OLYMPUS INFINITY 35 MM

SUBJECT: LOCATION OF BACKGROUND SOIL SIMPLE